

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P886170

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-2700K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-2700K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

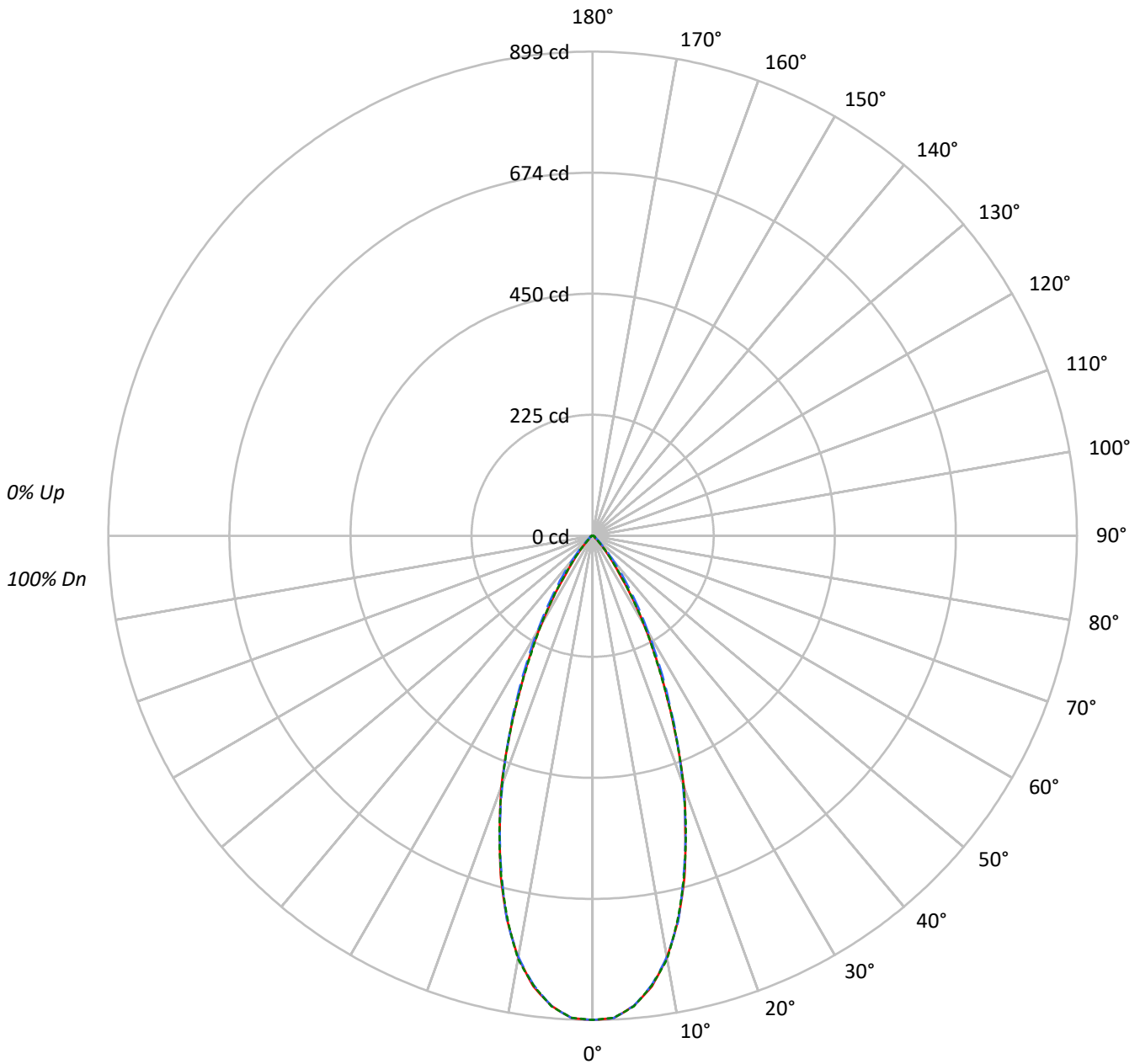
Lumens per Lamp: N/A
Luminaire Lumens: 509.3 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88																			
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83																			
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78																			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74																			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70																			
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66																			
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63																			
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60																			
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	87081	87081	87081
5°	85216	85216	85304
10°	78214	78125	78460
15°	65963	65451	65712
20°	51041	50443	50701
25°	34301	35370	34301
30°	21466	22865	21366
35°	10301	13671	10998
40°	5198	7208	5198
45°	2069	3562	2302
50°	1130	1899	1266
55°	844	1132	996
60°	814	969	814
65°	779	963	779
70°	708	963	708
75°	936	936	936
80°	948	948	948
85°	889	889	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3562 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	15.9
10°-20°	179.9	35.3
20°-30°	150.2	29.5
30°-40°	67.6	13.3
40°-50°	17.8	3.5
50°-60°	5.8	1.1
60°-70°	3.9	0.8
70°-80°	2.4	0.5
80°-90°	0.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	411.1	80.7
0°-40°	478.7	94.0
0°-60°	502.3	98.6
0°-90°	509.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	876	877	876	876	877	81
15°	658	655	653	654	655	180
25°	321	327	331	328	321	149
35°	87	101	116	103	93	61
45°	15	20	26	20	17	14
55°	5	6	7	6	6	5
65°	3	4	4	4	3	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.9	898.9	898.9	898.9	898.9
2.5°	896.4	896.4	896.4	897.3	895.6
5°	876.3	877.2	876.3	876.3	877.2
7.5°	843.7	843.7	841.1	842.0	842.0
10°	795.1	793.4	794.2	793.4	797.6
12.5°	732.2	733.1	733.1	734.7	729.7
15°	657.7	655.2	652.6	653.5	655.2
17.5°	572.2	572.2	573.0	571.4	575.6
20°	495.1	491.8	489.3	485.9	491.8
22.5°	404.7	406.3	407.2	404.7	405.5
25°	320.9	326.7	330.9	327.6	320.9
27.5°	253.0	253.0	263.9	256.4	248.8
30°	191.9	196.9	204.4	196.9	191.0
32.5°	136.6	146.6	156.7	147.5	137.4
35°	87.1	101.4	115.6	103.0	93.0
37.5°	59.5	67.9	83.8	68.7	62.0
40°	41.1	45.2	57.0	46.1	41.1
42.5°	26.8	31.0	38.5	31.0	26.8
45°	15.1	20.1	26.0	20.1	16.8
47.5°	9.2	11.7	18.4	12.6	10.9
50°	7.5	9.2	12.6	8.4	8.4
52.5°	6.7	7.5	8.4	7.5	6.7
55°	5.0	5.9	6.7	5.9	5.9
57.5°	5.0	5.0	5.9	5.0	5.0
60°	4.2	5.0	5.0	5.0	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.4	4.2	4.2	4.2	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	2.5	3.4	3.4	3.4	2.5
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.8	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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